|  | <br> | <br>ims |  |
|--|------|---------|--|
|  |      |         |  |

| Application/Control No. | Applicant(s)/Patent under Reexamination |
|-------------------------|---|
| 10/753,608              | FAIR, ROBERT L.                         |
| Examiner                | Art Unit                                |
| Patrick M. Moore        | 2188                                    |

| <b>√</b> | Rejected | -  | - | (Through numeral)<br>Cancelled |
|----------|----------|----|---|--------------------------------|
| =        | Allowed  | [. | ÷ | Restricted                     |

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| ı | Interference | 0 |  |

| A | Appeal   |
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| Cla      | im                                     | Date                |                |              |  |                           |          |              | $\neg$         |          |
|----------|--|---------------------|----------------|--------------|--|---------------------------|----------|--------------|----------------|----------|
|          |  |                     |                |              |  |                           |          |              |                |          |
| Final    | Original                               | 9/22/06             |                |              |  |                           |          |              |                |          |
|          | 1                                      | 1                   |                |              |  |                           |          |              |                |          |
|          | 1<br>2<br>3<br>4<br>5                  | 1                   |                |              |  |                           |          |              |                |          |
|          | 3                                      |                     |                |              |  |                           |          |              |                |          |
|          | 4                                      | П                   |                |              |  |                           |          |              |                |          |
|          | 5                                      |                     |                |              |  |                           |          |              |                |          |
|          | 6<br>7                                 | П                   |                |              |  |                           |          |              |                |          |
|          | 7                                      | Ш                   |                |              | L  |                           |          | _            |                |          |
|          | 8<br>9<br>10                           | Ш                   |                | L            | _  |                           |          |              |                |          |
|          | 9                                      | Ш                   | L              | _            | _  | $ldsymbol{ldsymbol{eta}}$ |          | _            |                | Ш        |
|          | 10                                     | Щ                   | L_             | _            | L  | L                         |          | _            |                | $\sqcup$ |
|          | 11                                     | Щ                   | L_             | <u> </u>     | L  | _                         |          |              |                |          |
|          | 12                                     | 4                   | <u> </u>       | _            | <u> </u>   | <u> </u>                  | Ш        | -            | $\sqcup$       |          |
|          | 13                                     | ₩                   | <u> </u>       | $\vdash$     | $\vdash$   | <u> </u>                  | Щ        | Щ            | Ш              | $\sqcup$ |
|          | 11<br>12<br>13<br>14<br>15<br>16<br>17 | 1                   | <u> </u>       | <u> </u>     | ┞  | <u> </u>                  |          |              | $\vdash$       | $\dashv$ |
|          | 15                                     | ₩                   |                | <u> </u>     | ļ  |                           | Ш        |              | $\vdash$       | -        |
|          | 16                                     | ₩                   |                | <u> </u>     | _  | <u> </u>                  |          |              | Н              | $\dashv$ |
|          | 1/                                     | ₩                   | <del> </del>   |              | -  | <u> </u>                  |          |              | Щ              | -        |
|          | 18<br>19<br>20<br>21                   | Н                   | <u> </u>       | _            | ⊢  | ⊢                         | <u> </u> |              |                | $\dashv$ |
|          | 19                                     | ₩                   | ├              | ⊢            | ⊢  | ⊢                         | H        |              | _              | $\dashv$ |
|          | 20                                     | ₩                   | ⊢              | ⊢            | ⊢  | ⊢                         |          | _            |                | $\dashv$ |
|          | 21                                     | ₩                   | H              | -            | ├-   | -                         | $\vdash$ |              | _              | $\dashv$ |
|          | 22<br>23                               | H                   | ├              | ⊢            | ⊢  | ├                         | -        |              | -              |          |
|          | 24                                     | H                   | ⊢              | ┢            | ┢  | ┢                         | -        | -            |                | $\dashv$ |
|          | 24<br>25<br>26<br>27<br>28<br>29       | H                   | ╁╌             | ├            | ┢  | ┢                         |          |              | $\vdash$       | -        |
|          | 26                                     | H                   | -              | $\vdash$     | ╁  | $\vdash$                  | $\vdash$ |              | $\vdash$       | $\vdash$ |
|          | 27                                     | ╫                   | ╌              | ┢            | $\vdash$   | ╁                         | $\vdash$ | -            | $\vdash$       | $\dashv$ |
|          | 28                                     | H                   | ╁╴             | ╁╌           | <del>                                     </del> | t                         | H        | -            |                | Н        |
|          | 29                                     | Ħ                   | $\vdash$       | $\vdash$     | <del>                                     </del> | ┢                         |          |              | -              | Н        |
|          | 30                                     | $^{\dagger\dagger}$ | $\vdash$       |              | <del>                                     </del> | $\vdash$                  | _        |              |                |          |
| _        | 30<br>31                               | Ħ                   | H              | t            | ╁  | ✝                         | _        |              |                |          |
|          | 32                                     | H                   | Т              | Τ            | T  |                           |          | $\vdash$     |                | П        |
|          | 32<br>33                               | 11                  | Π              |              | T  |                           | Γ        |              |                |          |
|          | 34                                     | 11                  |                | 1            | T  | Γ                         |          |              |                | П        |
|          | 35                                     | $\prod$             |                |              |  |                           |          |              |                |          |
|          | 36                                     | $\Pi$               |                |              |  |                           | L        |              |                |          |
|          | 37                                     | $\Pi$               |                |              |  |                           |          |              |                |          |
|          | 38<br>39                               |                     |                |              |  |                           |          |              |                |          |
|          | 39                                     | $\prod$             |                |              | $\perp$  |                           |          | _            |                |          |
|          | 40                                     | $\mathbb{I}$        | _              | _            | L  |                           |          | _            | _              |          |
| <u> </u> | 41                                     | 1                   | 1_             | _            | $\perp$  | _                         | _        | <u> </u>     | L_             |          |
| L        | 42                                     | 4                   | _              | <u> </u>     | 1_   | <del> </del>              | <u> </u> | <u> </u>     | <u> </u>       | <u> </u> |
|          | 43                                     | 11                  |                | <del> </del> | ↓_   | ـ                         | <u> </u> | <u> </u>     | _              | $\vdash$ |
| ļ        | 44                                     | 11                  | $\vdash$       |              | ↓_   | ↓_                        | <u> </u> | <u> </u>     | <u> </u>       | <u> </u> |
| <u> </u> | 45                                     | 11                  | ┞              | $\vdash$     | ـ  | ₩                         | <u> </u> | <u> </u>     | <u> </u>       | <u> </u> |
| <u> </u> | 46                                     | #                   | <del> </del> — | ┼            |  | ┼                         | ├        | <u> </u>     | <del> </del> — | _        |
|          | 47                                     | ₩                   | ┼              | ┼-           | $\vdash$   | $\vdash$                  | -        | <u> </u>     | <b>!</b>       | $\vdash$ |
| <u> </u> | 48                                     | ₩                   | $\vdash$       | $\vdash$     | +  | ╀                         | $\vdash$ | <del> </del> | ⊢              | $\vdash$ |
| <u> </u> | 49<br>50                               | ┧                   | +-             | $\vdash$     | ╀  | +-                        | -        | -            | ₩              | -        |
|          | - 211                                  | . 4                 |                |              |  |                           |          |              |                |          |

| Cla         | im             | _        |  |              | . [          | Date         | ,  |              |              |                |
|-------------|----------------|----------|--|--------------|--------------|--------------|--|--------------|--------------|----------------|
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| <u>a</u>    | Original       |          |  |              |              |              |  |              |              |                |
| Final       | 臣              |          |  |              |              |              |  |              |              |                |
|             | 0              |          |  |              |              |              |  |              |              | . 1            |
|             | 51             | 1        | $\vdash$                               | _            | _            | _            |  |              |              | _              |
| -           | 52             |          | $\vdash$                               | $\vdash$     |              |              |  |              |              |                |
|             | 53             | 44       | _                                      | $\vdash$     | _            | -            |  |              | Н            | _              |
| <b>—</b>    | 54             | Ť        | _                                      | $\vdash$     | $\vdash$     | -            |  |              | Н            | -              |
|             | 55             | -        | -                                      | ┝            | -            | H            |  |              | Н            |                |
|             | 56             |          | _                                      | <del> </del> | -            |              | $\vdash$   | _            | -            | _              |
| <b>—</b>    | 57             |          | $\vdash$                               | ┢            | ┝╾           | -            | $\vdash$   |              |              | _              |
|             | 50             |          | $\vdash$                               | -            | ┝            | $\vdash$     | _  | -            | H            |                |
| -           | 58<br>59       | -        | -                                      | ┝            | <del>-</del> |              |  |              | -            |                |
|             | 29             |          | _                                      |              | -            | H            | _  |              | -            |                |
| <u> </u>    | 60             |          | _                                      | ├            |              | _            |  | _            | _            |                |
|             | 61             | _        | _                                      | <u> </u>     | <u> </u>     | _            |  | <u> </u>     | <u> </u>     | <u> </u>       |
|             | 62             |          | <u> </u>                               | L            | <u> </u>     |              | <u> </u>   | _            |              |                |
|             | 63<br>64<br>65 |          | L_                                     |              | _            |              |  |              |              |                |
|             | 64             |          | <u>_</u>                               |              | _            |              | L  |              |              |                |
|             | 65             |          |  |              |              |              |  | <u>L</u>     |              |                |
|             | 66             |          |  |              |              | _            | _  | _            |              | _              |
|             | 67             |          |  |              |              | L            |  |              |              |                |
|             | 68             |          |  | Γ            | Γ            |              |  |              |              |                |
|             | 69<br>70       |          |  | П            |              |              |  |              |              |                |
|             | 70             |          |  | Г            |              |              |  |              |              |                |
|             | 71             |          |  |              |              |              |  | T            |              |                |
|             | 72             |          |  | 1            |              |              |  |              |              |                |
|             | 72<br>73       | _        | Г                                      | Г            |              |              |  |              |              |                |
| <u> </u>    | 74<br>75       | Г        |  |              | Г            | T            |  | Г            | Τ            |                |
|             | 75             | Н        |  |              | <u> </u>     | Г            |  | Ι-           |              |                |
| -           | 76             | Н        |  | T            | 1            | Т            | <b>-</b>   |              | Г            | _              |
| <b>—</b>    | 77             | _        | -                                      | T            | ╁            | 1            |  |              | $\vdash$     | Т              |
| -           | 78             | -        | $\vdash$                               | $\vdash$     | $\vdash$     | ┢            | <del>                                     </del>   | $\vdash$     | $\vdash$     |                |
| <b>—</b>    | 79             | ┝        | $\vdash$                               | 1-           | ┢            | t            | H  | ╁╴           | ╁            |                |
| -           | 80             | $\vdash$ | H                                      | ╁╌           | ┢            | ╁            | $\vdash$   |              | -            | Н              |
| <del></del> | 81             | $\vdash$ | ⊢                                      | ┼            | $\vdash$     | -            | ⊢  | ┢            | -            | -              |
| -           | 92             |          | ╁                                      | +            | $\vdash$     | -            | <del>  -                                    </del> | <del> </del> | $\vdash$     | $\vdash$       |
| -           | 82<br>83       | $\vdash$ | <del> </del>                           | -            | $\vdash$     | $\vdash$     | -  | ├            | +            | $\vdash$       |
| -           | 03             |          | ├                                      | -            | $\vdash$     | $\vdash$     | <del> </del>                                       | ┝            | +-           | $\vdash$       |
| <u> </u>    | 84<br>85       | -        | $\vdash$                               | $\vdash$     | $\vdash$     | ├            | $\vdash$   | <u> </u>     | -            | -              |
| <u> </u>    | 00             | $\vdash$ | ⊢                                      | ╁            | $\vdash$     | ├            | $\vdash$   | ╁            | $\vdash$     | <del>  .</del> |
| -           | 86             | ⊢        | ├-                                     | +-           | ├            | ╀            | $\vdash$   | -            | -            | -              |
| -           | 87             | $\vdash$ | -                                      | $\vdash$     | $\vdash$     | ┼—           | -  | -            | $\vdash$     | ├              |
|             | 88             | <u> </u> |  | -            | -            | ├-           | ├-   |              | 1—           | -              |
| <u> </u>    | 89             | $\vdash$ | ⊢                                      | 1            | -            |              | -  | ├-           |              | <del> </del>   |
|             | 90             | <u> </u> | ┞                                      | <del> </del> |              | <del> </del> | $\vdash$   | ├_           | <del> </del> | <u> </u>       |
| <u> </u>    | 91             | <u></u>  | ــــ                                   | _            | $\vdash$     | <del> </del> | <b>—</b>   | ⊢            | ↓_           | <u> </u>       |
| <u></u>     | 92             | $\vdash$ | _                                      | $\perp$      | $\vdash$     | <u></u>      | <u> </u>   | <u> </u>     | $\perp$      | <u> </u>       |
| L_          | 93             | <u></u>  | $oldsymbol{oldsymbol{oldsymbol{eta}}}$ | $\perp$      | 丄            | <u> </u>     | _  | <u> </u>     | _            | <u> </u>       |
|             | 94             | _        | 1_                                     | _            | <del> </del> | <u></u>      | L  | <u> </u>     | ┞-           |                |
|             | 95             | L        |  |              | L            | _            | _  |              | _            |                |
|             | 96             | L        | L                                      |              |              |              | ŀ  |              |              | $\Box$         |
|             | 97             |          | $\Gamma$                               |              |              |              | L  |              | $L^{T}$      |                |
|             | 98             |          | $\Gamma_{-}$                           |              |              |              |  | $L^{-}$      |              |                |
|             | 99             | Γ        | Π                                      |              | Г            |              | Γ  |              |              |                |
|             | 100            |          | 1                                      | 1            | 1            | $\top$       |  | 1            | 1            | 1              |

| Cla  | aim  |           |          |  | . [      | ate      | ;  |  |          |          |
|--|--|-----------|----------|--|----------|----------|--|--|----------|----------|
| Final  | Original   |           |          |  |          |          |  |  |          |          |
|  | 101<br>102<br>103                                    |           |          |  |          |          |  |  |          | $\Box$   |
|  | 102  |           |          |  |          |          |  |  |          |          |
|  | 103  |           |          |  |          |          |  |  | _        | _        |
|  | 104<br>105   | $\square$ |          | Ш  | _        |          | Ш  | -  | _        | _        |
|  | 105  | - 1       |          | Ш  |          | _        |  | _  |          |          |
|  | 106  |           | _        |  |          | _        | $\vdash$   | -  | -        | $\dashv$ |
|  | 107<br>108   |           | _        |  |          | _        |  | -  | -        | $\dashv$ |
|  | 109  | Н         | _        | -  |          |          |  |  |          | _        |
|  | 110  | Н         |          | <del>                                     </del> |          |          |  | _  |          |          |
|  | 111  | П         |          |  | _        |          |  |  |          |          |
|  | 112  |           |          |  |          |          |  |  |          |          |
|  | 112<br>113<br>114<br>115                             |           |          |  |          |          |  |  |          |          |
|  | 114  |           |          |  |          |          |  |  |          | _        |
|  | 115  |           |          | _  | _        | <u> </u> |  |  | Ш        |          |
|  | 1116   | Н         |          | _  |          | ⊢        | L  |  |          |          |
|  | 117<br>118   |           | _        |  | <u> </u> | ┝        |  | _  | -        |          |
|  | 118  | Н         | <u> </u> | <del> </del>                                     | -        | _        |  |  | $\dashv$ |          |
|  | 120  | $\vdash$  | -        | ╁  |          | -        |  | -  | -        |          |
|  | 121  | $\vdash$  |          | ╁╴   | -        | $\vdash$ | $\vdash$   | -  |          | $\dashv$ |
|  | 122  | $\vdash$  |          | $\vdash$   |          | -        | H  |  |          |          |
|  | 120<br>121<br>122<br>123<br>124<br>125<br>126<br>127 | T         |          | T  |          | Г        | T  |  |          |          |
|  | 124  |           |          |  |          |          |  |  |          |          |
|  | 125  |           |          |  |          |          |  |  |          |          |
|  | 126  | _         | L        | _  |          |          | L  |  | Ш        |          |
|  | 127  | <u> </u>  | L        | <u> </u>   | _        | <u> </u> | <u> </u>   | <u> </u>   |          |          |
|  | 128<br>129   | ⊢         | L        | ├_   |          | <u> </u> | $\vdash$   | <u> </u>   | -        | Н        |
|  | 129  | <b>_</b>  | ┡        | ┝  | ⊢        | ├        | $\vdash$   |  | -        |          |
|  | 130<br>131   | -         | -        | -  | ┝        |          | -  | ┢  | H        |          |
|  | 132  | ╁         | $\vdash$ | -  | $\vdash$ | -        | $\vdash$   |  | $\vdash$ |          |
|  | 133  | $\vdash$  | $\vdash$ | $\vdash$   | 一        | ┢┈       | 一  | <del>                                     </del> | 一        |          |
|  | 134  | $\vdash$  |          | $\vdash$   | Т        |          | T  | П  | $\vdash$ |          |
|  | 135  |           |          |  |          |          |  |  |          |          |
|  | 136<br>137   |           |          |  |          |          |  |  |          |          |
|  | 137  | L         | L        | <u> </u>   |          | <u> </u> |  |  | _        |          |
|  | 138  | ┖         | _        | ļ  | <u> </u> | <u> </u> | _  | <u> </u>   | <u> </u> |          |
|  | 139  | ├-        | ⊢        | ┡  | ┡        | ┞        | -  | ┡  | <u> </u> | _        |
| <u> </u>   | 140  | -         | -        | ١  | ├        | -        | -  | ├  | ŀ        | H        |
| <u> </u>   | 141  | +         | $\vdash$ | -  | ╁        | -        | +  | $\vdash$   | -        | H        |
| <u> </u>   | 143  | +-        | ┢        | +  | $\vdash$ | +        | <del>                                     </del> | $\vdash$   | -        | $\vdash$ |
| <del>                                     </del> | 144  | +         | -        | $\vdash$   | t        | 1        | 1  | <del>                                     </del> | $I^-$    |          |
| _  | 145  | $\vdash$  | H        | 1  | T        | $\vdash$ | $\top$   | $I^-$  | Г        | Г        |
|  | 146  |           | T        | 1  | Т        |          | 1  |  | Π        |          |
|  | 147  |           | Γ        |  |          |          |  |  |          |          |
|  | 148  |           |          |  |          |          |  | 匚  |          |          |
|  | 149  |           | L        |  |          | L        | $\perp$  | <u> </u>   | L        | L        |
|  | 150  |           | 1_       | <u> </u>   | L        | _        | _  |  | L        | <u> </u> |
|  |  |           |          |  |          |          |  |  |          |          |